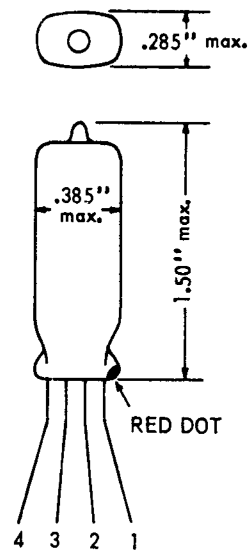
SUBMINIATURE TRIODE

TYPE CK6050

The CK6050 is a filament type triode of subminiature construction designed for use as a high-frequency oscillator, Class C amplifier, or frequency multiplier up to several hundred megacycles. The design of this type is optimized for high peak current, high frequency operation at relatively low filament power. This type is manufactured and controlled to insure more uniform operation at reduced filament voltages down to 1.0 volts, particularly for high frequency equipment whose performance level correlates with transconductance. The CK6050 is suitable for intermittent service applications such as "push-to-talk" transmitters which do not require long life characteristics. The filament of the CK6050 should not be operated continuously inasmuch as its 100 hour life rating is chiefly a function of the filament temperature and hours of filament operation. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length.



MECHANICAL DATA

ENVELOPE: T-2X3 Glass

BASE: None (0.016" tinned flexible leads. Length: 1.5" min. Spacing: 0.048" center-to-center.)

TERMINAL CONNECTIONS: *(Red Dot is adjacent to Lead 1)*

- Lead 1 Plate
- Lead 2 Filament, negative
- Lead 3 Grid
- Lead 4 Filament, positive

MOUNTING POSITION: Any

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (*μμfds.*)

	Shielded ▲	Unshielded
Grid to Plate	1.4	1.4
Grid to Filament	1.3	1.2
Plate to Filament	3.4	1.9

RATINGS - ABSOLUTE MAXIMUM VALUES:

Filament Voltage (dc)	1.25 ± 20%	volts
Plate Voltage	150	volts
Plate Current	11	ma.

CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER:

Filament Voltage (dc)	1.25	volts
Filament Current	.12	amps
Plate Voltage	135	volts
Grid Voltage	-5	volts
Transconductance	1600	μmhos
Amplification Factor	15	
Plate Current	4.0	ma.
Grid Voltage (approx.) for Ib = 15 μa.	-10	volts

▲ *With close fitting shield connected to lead 2.*

Tentative Data

RAYTHEON

SUBMINIATURE TRIODE

AVERAGE PLATE CHARACTERISTICS

